

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A cathode ray tube, comprising:
 - a glass front panel;
 - a funnel fastened to the panel, the funnel including a neck part and a screen part opposing the neck part, wherein the screen part is fastened to the panel;
 - a fluorescent screen formed on an interior surface of the panel;
 - a shadow mask disposed a predetermined distance from the fluorescent screen;
 - an electron gun coupled to the neck part for emitting electron beams, the electron beams formed of a plurality of electrons;
 - a deflection yoke for deflecting electrons within the electron beams in horizontal and vertical directions, wherein the deflection yoke includes a horizontal deflection coil for horizontally deflecting electrons within the electron beams and a vertical deflection coil for vertically deflecting electrons within the electron beams;
 - a core for reducing loss in the strength of a magnetic field generated by the horizontal and vertical deflection coils, the core including an attaching portion and attachment grooves along an edge portion of the attaching portion, wherein the attachment grooves are formed on the exterior surface of the split cores; and
 - a holder for holding and insulating the horizontal and vertical deflection coils, wherein along a cross section perpendicular to an axis of the funnel, a thickness of the attaching portion of the core is different from a thickness of a portion of the core proximate to a portion of the funnel fastened to the panel
 - wherein the thickness of a portion of the core proximate to a portion of the attachment grooves is greater than the thickness from the attachment groove to the inside surface of the core and the thickness of a portion of the core between attachment grooves is greater than the thickness of another portion of the core proximate to a portion of the attachment grooves.
2. (Currently Amended) The cathode ray tube according to claim 1, wherein the thickness of the attaching portion is greater than the thickness of the portion of the core proximate to the screen part.
3. (Original) The cathode ray tube according to claim 1, wherein the thickness of the portion of the core proximate the screen part is about 3mm to about 6mm.

4. (Original) The cathode ray tube according to claim 3, wherein the thickness of the portion of the core proximate the screen part is about 4mm to about 5mm.

5. (Original) The cathode ray tube according to claim 3, wherein the thickness of the attaching portion of the core is about 4mm to about 6mm.

6. (Original) The cathode ray tube according to claim 1, wherein the thickness of the attaching portion of the core is about 4mm to about 6mm.

7. (Previously Presented) The cathode ray tube according to claim 1, wherein the thickness of the core adjacent to the attaching portion is about 1/3 to about 2/3 the thickness of the core including the attaching portion.

8. (Canceled)

9. (Currently Amended) The cathode ray tube according to claim 1 ~~[[8]]~~, wherein ~~a~~ ~~[[the]]~~ depth of the attachment grooves is about 1/3 to about 2/3 the thickness of the attaching portion of the core between the attaching grooves.

10. (Currently Amended) The cathode ray tube according to claim 1 ~~[[8]]~~, wherein an actual depth of the attachment grooves is about 2mm to about 3.5mm.

11. (Currently Amended) The cathode ray tube according to claim 1 ~~[[8]]~~, wherein the two attachment grooves are spaced apart from each other by a distance of about 10mm to about 14mm.

12. (Currently Amended) The cathode ray tube according to claim 1 ~~[[8]]~~, wherein an exterior surface of the attaching portion of the core between the attachment grooves protrudes from the major exterior surface of the core.

13. (Original) The cathode ray tube according to claim 1, wherein the core includes ferrite.

14. (Currently Amended) The cathode ray tube according to claim 1 ~~[[8]]~~, wherein a bottom exterior surface of the attachment groove and a surface contactable by a clamp are joined together at a corner having a curvature with a predetermined radius, R.

15. (Original) The cathode ray tube according to claim 14, wherein R is between about 1 mm and about 2 mm.

16. (Currently Amended) The cathode ray tube according to claim 1 ~~[[8]]~~, wherein the attachment grooves extend to an end portion of the core proximate to the screen part.

17. (Original) The cathode ray tube according to claim 1, wherein the core weighs between about 160g and about 180g.

18. (Original) The cathode ray tube according to claim 1, wherein an interior surface of the funnel has a cross section, perpendicular to the axis of the funnel, that gradually changes from a substantially circular shape at the neck part to a substantially non-circular shape at the screen part.

19. (Original) The cathode ray tube according to claim 1, wherein an exterior surface of the funnel has a cross section, perpendicular to the axis of the funnel, that gradually changes from a substantially circular shape at the neck part to a substantially non-circular shape at the screen part.

20. (Currently Amended) A core of a cathode ray tube, comprising:
a pair of split cores fixable to each other, wherein a first opening and a second opening opposing the first opening are definable by the pair of split cores;
an attaching portion wherein a protruding portion of attaching portion protrudes above an exterior surface of the split cores; and
attachment grooves adjacent to the attachment portion, wherein the attachment grooves formed on the exterior surface of the split cores,
wherein the thickness of the split cores between the attachment grooves is different than a thickness of a portion of the split cores defining the first opening, and

wherein the thickness of the portion of the split core proximate to a portion of the attachment groves is greater than the thickness from the attachment grove to the inside surface of the split core and the thickness of a portion of the core between attachment grooves is greater than the thickness of another portion of the core proximate to a portion of the attachment grooves.

21. (Canceled)

22. (Previously Presented) The core according to claim 20, wherein the thickness of the split cores between the attachment grooves is greater than a thickness of a portion of the split cores defining the first opening.

23. (Original) The core according to claim 20 wherein the thickness of a portion of the split cores defining the first opening is about 3mm to about 6mm.

24. (Original) The core according to claim 23, wherein the thickness of a portion of the split cores defining the first opening is about 4mm to about 5mm.

25. (Previously Presented) The core according to claim 20 wherein the thickness of the split cores between the attachment grooves is about 4mm to about 6mm.